Esin and Markov coefficient

The left-hand side of one of the various cross-differential relationships that can be obtained from the *Gibbs adsorption* equation when only one chemical potential (μ) is considered as variable, viz.

$$\left(\frac{\partial E}{\partial \mu}\right)_{T,\,p,\,\sigma} = -\left(\frac{\partial \Gamma}{\partial \sigma}\right)_{T,\,p,\,\mu}$$

where E is the potential difference, T is the temperature, p is the pressure, Γ is the surface excess and σ is the charge density.

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